

**ABSTRACT**

A dynamic workload management system enables system administrators to easily identify installed applications and to assign them to affinity groupings in order of importance to the enterprise and to enable the system administrators to save and restore multiple configurations. The workload configuration is continually updated based on the hardware utilization measurements of the application groups that make up a workload configuration. The software interface of the system of the invention permits the system to dynamically add and remove processors to and from affinity masks that are automatically set up. This feature of the invention allows the application groups to consume CPU resources according to their priority.